

CLAIMS

ind. & susp. medium
 1. A suspension of PBBMA, comprising PBBMA in the form of finely ground particles and containing a suspending agent selected from the group consisting of xanthene gums, anionic or nonionic purified, sodium modified montmorillonite, naphthalene sulfonic acid-formaldehyde condensate sodium salt, sodium or calcium or ammonium salts of sulfonated lignin, acrylic acids/acrylic acids ester copolymer neutralized - sodium polycarboxyl, and a wetting agent selected from the group consisting of alkyl ether, alkylaryl ether, fatty acid diester and sorbitan monoester types, polyoxyethylene (POE) compounds.

2. A suspension according to claim 1, wherein said wetting agent is selected from the group consisting of:

POE allyl ethers N - 5; 10; 20;

POE lauryl ethers N - 5; 10; 20;

POE acetylphenyl ethers N - 3; 5; 10; 20;

POE nonylphenyl ethers N - 3; 4; 5; 6; 7; 10; 12; 15; 20;

POE dinonylphenyl ethers N - 5; 10; 20;

POE oleate - N - 9, 18, 36;

Sorbitan monooleate N - 3; 5; 10; 20; and

Alkyl naphthalene sulfonates or their sodium salts;

wherein N is the number of ethylene oxide units.

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 3. A suspension according to claim 1, wherein said suspending medium is water.

4. A suspension according to claim 1, wherein said PBBMA is in the form of particles having a size smaller than 50 μm .

5. A suspension according to claim 4, wherein said PBBMA is in the form of particles having a size from 0.3 to 10 μm .

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 6. A suspension according to claim 1, wherein said suspension comprises an aqueous suspension, and said suspending agent comprises xanthene gums.

7. A suspension according to claim 1, wherein said suspension comprises an aqueous suspension, and said suspension has a stability at room temperature of at least two weeks.

8. A suspension according to claim 1, wherein said suspension comprises an aqueous suspension, and said suspension has a stability at room temperature of at least one month.

9. A suspension according to claim 1, wherein said suspension comprises an aqueous suspension, and said suspension has a stability of at least one week according to the "Tropical Storage Test", at 54°C.

10. A suspension according to claim 1, wherein said suspension comprises an aqueous suspension, and said suspension further comprises a nonionic or anionic surface active agent.

11. A suspension according to claim 10, wherein said surface active agent is selected from the group consisting of polyalkylene glycol ethers, free acids, organic phosphate esters, the dioctyl ester of sodium sulfosuccinic acid, or polyoxyethylene-alkyl-ethers.

12. A process for the preparation of an aqueous suspension of PBBMA, which comprises grinding said PBBMA to the desired particle size, in water containing wetting agents.

13. A process according to claim 12, further comprising preparing a suspension of (an additional compound) in a way similar to the preparation of said PBBMA suspension, and then mixing the two suspensions.

14. A process according to claim 13, wherein said suspension of said additional compound is added to a slowly stirred suspension of PBBMA, and stirring is continued until a homogeneous, mixed suspension is obtained.

15. A process according to claim 12, further comprising adding to the suspension a preserving agent.

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16. A process for the fire retardation of carpets, which comprises applying an aqueous suspension of PBBMA according to claim 1 to carpet-backings and polymerizing said PBBMA by heating at temperatures above 130°C.

17. A process for the fire retardation of textile materials, which comprises applying an aqueous suspension of PBBMA according to claim 1 to the textile materials and polymerizing said PBBMA by heating at temperatures above 130°C.

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18. A process for the production of fire-retarded adhesives, which comprises preparing a suspension of PBBMA according to claim 12 and copolymerizing said PBBMA with other monomers.

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19. A process for the production of fire-retarded adhesives, which comprises preparing a suspension of PBBMA according to claim 1 and grafting said PBBMA into polymers.

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20. A process for the production of transparent plastics, which comprises preparing a suspension of PBBMA according to claim 1 and copolymerizing said PBBMA with other acrylic monomers.

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(other methacrylate)
21. A process for the production of double-layered particles, which comprises preparing a suspension of PBBMA according to claim 1 and adding another acrylic monomer to said suspension under polymerization conditions, to produce hydrophilic particles and stable latexes.

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